LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052316\
Data File : BG022044.D
Acq On : 23 May 2016 12:37
Operator : UM/SJ
Sample : H3086-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.224	61	66	73	rVB5	5540	9851	0.78%	0.065%
2	3.307	78	80	86	rBV4	2232	3729	0.30%	0.024%
3	3.536	115	119	125	rVB2	4200	6831	0.54%	0.045%
4	4.076	206	211	217	rVB6	3652	6707	0.53%	0.044%
5	4.305	245	250	253	rBV3	1772	3091	0.25%	0.020%
6	5.234	405	408	416	rVB5	2346	4375	0.35%	0.029%
7	7.308	754	761	774	rBV	72836	157343	12.52%	1.030%
8	7.472	783	789	805	rBV	67476	138062	10.99%	0.904%
9	7.690	817	826	836	rVV	86805	177950	14.16%	1.165%
10	7.766	838	839	842	rVV3	1854	1502	0.12%	0.010%
11	7.801	842	845	849	rVV5	1386	2024	0.16%	0.013%
12	8.160	896	906	917	rBV	97967	195415	15.55%	1.280%
13	8.271	923	925	931	rVB5	1231	1716	0.14%	0.011%
14	8.612	978	983	989	rVB5	1649	2922	0.23%	0.019%
15	8.794	1010	1014	1017	rBV2	1275	2060	0.16%	0.013%
16	8.859	1019	1025	1035	rBV	100870	205092	16.32%	1.343%
17	9.329	1097	1105	1116	rBV	78109	169271	13.47%	1.109%
18	9.411	1118	1119	1126	rVV7	3150	5211	0.41%	0.034%
19	10.052	1221	1228	1239	rBV	59458	131993	10.50%	0.864%
20	10.140	1239	1243	1245	rVV3	2766	4090	0.33%	0.027%
21	10.157	1245	1246	1251	rVB	1741	1839	0.15%	0.012%
22	10.445	1292	1295	1299	rVB4	2317	2965	0.24%	0.019%
23	10.598	1311	1321	1331	rBV	106530	225916	17.98%	1.480%
24	10.927	1374	1377	1378	rBV2	1536	1564	0.12%	0.010%
25	10.980	1378	1386	1391	rVV	172349	366535	29.17%	2.401%
26	11.027	1391	1394	1401	rVV	74433	131086	10.43%	0.859%
27	11.109	1402	1408	1415	rVV	66558	151328	12.04%	0.991%
28	11.174	1417	1419	1431	rVV2	14088	34257	2.73%	0.224%
29	11.250	1431	1432	1440	rVB4	1865	2903	0.23%	0.019%
30	11.808	1520	1527	1534	rBV4	4148	11024	0.88%	0.072%
31	11.885	1537	1540	1545	rVB4	1134	1802	0.14%	0.012%
32	11.973	1550	1555	1559	rBV4	2978	4172	0.33%	0.027%
33	12.155	1583	1586	1590	rVB4	1733	2681	0.21%	0.018%
34	12.243	1596	1601	1603	rBV3	2034	2259	0.18%	0.015%

LSC Area Percent Report

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Data File : BG022044.D
Acq On : 23 May 2016 12:37
Operator : UM/SJ
Sample : H3086-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Title : SVOA CALIBRATION

35	12.361	1614	1621	1623	rBV3	2945	4837	0.38%	0.032%
36	12.461	1635	1638	1641	rBV4	1641	1817	0.14%	0.012%
37	12.555	1649	1654	1659	rBV3	2706	4728	0.38%	0.031%
38	12.619	1659	1665	1673	rVV	37004	68548	5.46%	0.449%
39	12.684	1673	1676	1681	rVV4	1537	2679	0.21%	0.018%
40	12.743	1681	1686	1691	rVV5	2666	6022	0.48%	0.039%
41	12.842	1695	1703	1709	rVV	27226	52325	4.16%	0.343%
42	12.995	1723	1729	1732	rVV3	1880	3879	0.31%	0.025%
43	13.224	1765	1768	1769	rBV3	2095	1823	0.15%	0.012%
44	13.236	1769	1770	1775	rVB4	1675	1726	0.14%	0.011%
45	13.295	1775	1780	1782	rBV5	3182	4923	0.39%	0.032%
46	13.354	1787	1790	1791	rVV3	2044	1791	0.14%	0.012%
47	13.389	1793	1796	1799	rVB3	2070	2294	0.18%	0.015%
48	13.589	1823	1830	1831	rBV4	6723	11296	0.90%	0.074%
49	13.618	1832	1835	1840	rVB3	8264	14619	1.16%	0.096%
50	13.724	1850	1853	1857	rBV5	2450	3745	0.30%	0.025%
51	13.812	1862	1868	1873	rBV3	4360	9775	0.78%	0.064%
52	13.959	1886	1893	1900	rBV3	13176	34832	2.77%	0.228%
53	14.100	1911	1917	1923	rBV4	20215	42522	3.38%	0.278%
54	14.176	1923	1930	1935	rVV	218175	388210	30.89%	2.543%
55	14.223	1935	1938	1945	rVB	82125	129924	10.34%	0.851%
56	14.341	1954	1958	1962	rBV3	9585	15517	1.23%	0.102%
57	14.482	1974	1982	1997	rBV	290309	551102	43.86%	3.609%
58	14.605	2000	2003	2006	rVV5	3128	4921	0.39%	0.032%
59	14.652	2007	2011	2016	rVB3	11354	17866	1.42%	0.117%
60	14.781	2023	2033	2039	rBV2	269188	494548	39.36%	3.239%
61	14.846	2039	2044	2051	rVB	55396	101101	8.05%	0.662%
62	14.916	2051	2056	2061	rBV3	7754	12162	0.97%	0.080%
63	14.987	2061	2068	2077	rBV2	32779	86514	6.88%	0.567%
64	15.181	2094	2101	2110	rBV	49653	102827	8.18%	0.673%
65	15.251	2110	2113	2119	rVB6	9691	18912	1.51%	0.124%
66	15.392	2133	2137	2141	rBV4	7922	13778	1.10%	0.090%
67	15.439	2143	2145	2146	rBV2	5790	4733	0.38%	0.031%
68	15.551	2159	2164	2166	rBV5	13509	24578	1.96%	0.161%
69	15.598	2168	2172	2177	rVB	24117	39174	3.12%	0.257%
70	15.774	2196	2202	2207	rBV	346280	577484	45.96%	3.782%
71	15.827	2207	2211	2217	rVB2	113575	179738	14.30%	1.177%

LSC Area Percent Report

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Operator : UM/SJ
Sample : H3086-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
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Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Title : SVOA CALIBRATION

72	15.892	2217	2222	2230	rBV	47684	80392	6.40%	0.527%
73	15.998	2235	2240	2246	rBV7	14617	30773	2.45%	0.202%
74	16.115	2258	2260	2267	rVB	19542	25274	2.01%	0.166%
75	16.268	2282	2286	2294	rVB	20506	41625	3.31%	0.273%
76	16.485	2316	2323	2330	rVB6	37625	89152	7.09%	0.584%
77	17.531	2495	2501	2503	rBV	275131	443174	35.27%	2.903%
78	17.572	2503	2508	2513	rVB	776185	1256568	100.00%	8.230%
79	17.625	2513	2517	2521	rBV2	308315	478493	38.08%	3.134%
80	17.931	2565	2569	2576	rVB	70923	131506	10.47%	0.861%
81	18.401	2645	2649	2653	rBV2	56948	87106	6.93%	0.570%
82	18.448	2653	2657	2662	rVB	101292	154492	12.29%	1.012%
83	18.600	2677	2683	2686	rBV3	111956	207098	16.48%	1.356%
84	18.888	2730	2732	2737	rVB	43731	60033	4.78%	0.393%
85	19.570	2842	2848	2855	rVB	730887	1144859	91.11%	7.498%
86	19.905	2899	2905	2907	rBV3	491424	762144	60.65%	4.992%
87	19.934	2907	2910	2918	rVB	715957	1064893	84.75%	6.974%
88	20.422	2989	2993	2998	rVB2	86969	141564	11.27%	0.927%
89	20.516	3006	3009	3014	rBV	64621	84420	6.72%	0.553%
90	21.421	3160	3163	3168	rVB2	55550	76498	6.09%	0.501%
91	21.479	3169	3173	3181	rVB2	53548	99913	7.95%	0.654%
92	21.803	3220	3228	3234	rBV3	369550	987354	78.58%	6.467%
93	21.861	3234	3238	3249	rVB	236395	463261	36.87%	3.034%
94	22.014	3261	3264	3271	rVB2	43145	74484	5.93%	0.488%
95	24.082	3607	3616	3623	rBV3	127611	468670	37.30%	3.069%
96	24.834	3737	3744	3750	rBV3	68065	204008	16.24%	1.336%
97	24.922	3751	3759	3765	rVV3	165933	535175	42.59%	3.505%
98	24.987	3766	3770	3783	rVB	145925	397752	31.65%	2.605%
99	25.146	3788	3797	3806	rBV2	145568	468444	37.28%	3.068%
100	31.603	4894	4896	4897	rBV2	3700	2711	0.22%	0.018%

Sum of corrected areas: 15268672

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052316\
Data File : BG022044.D
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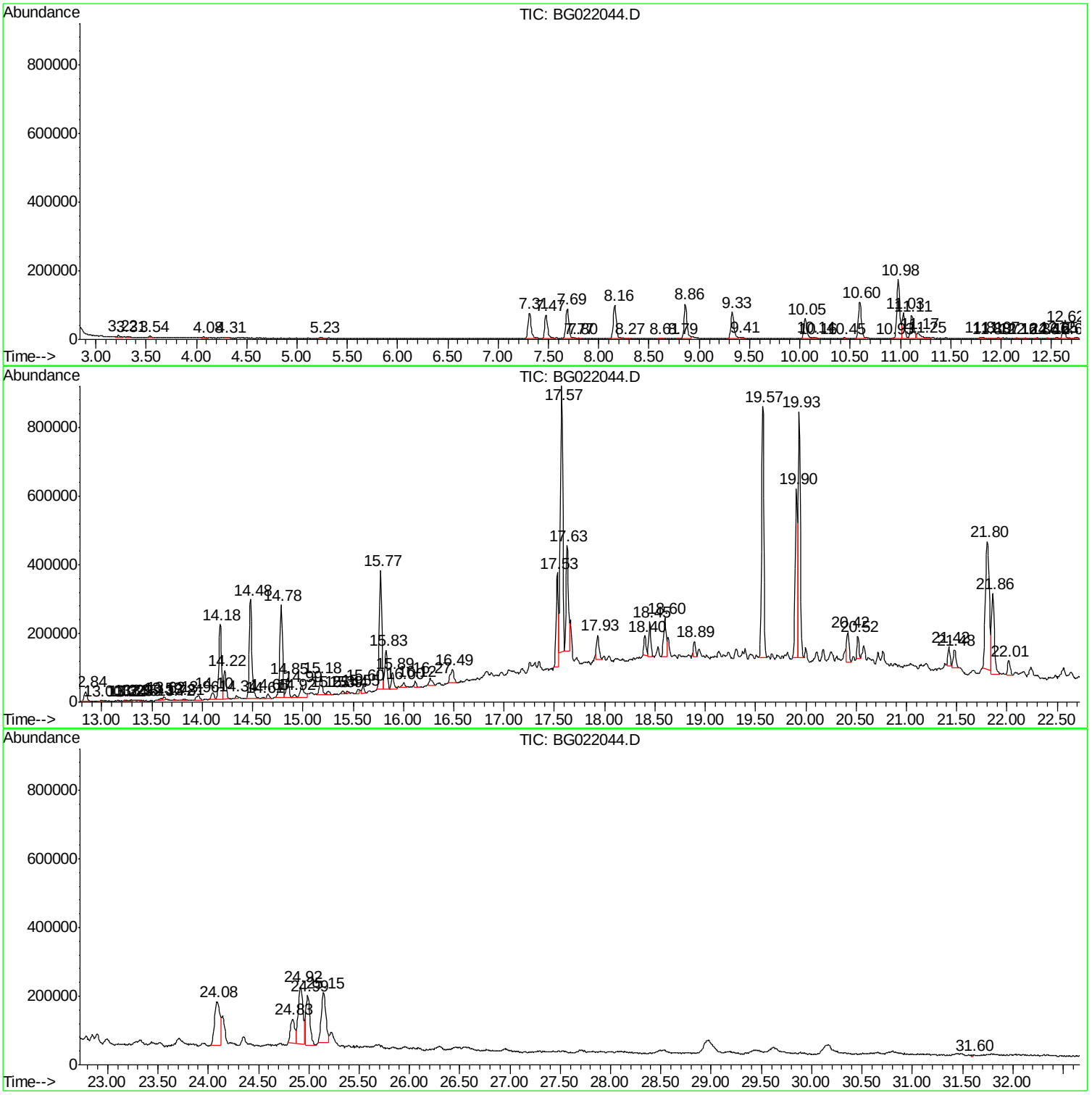
Operator : UM/SJ
Sample : H3086-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



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Instrument : BNA_G
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

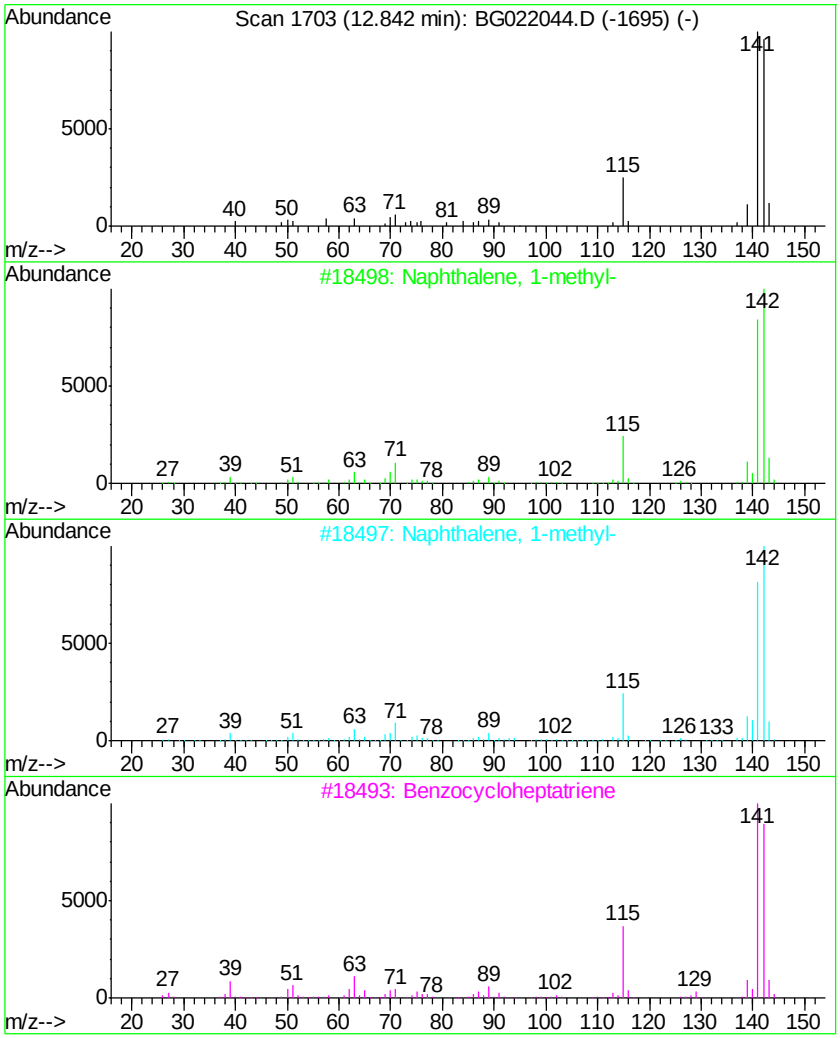
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

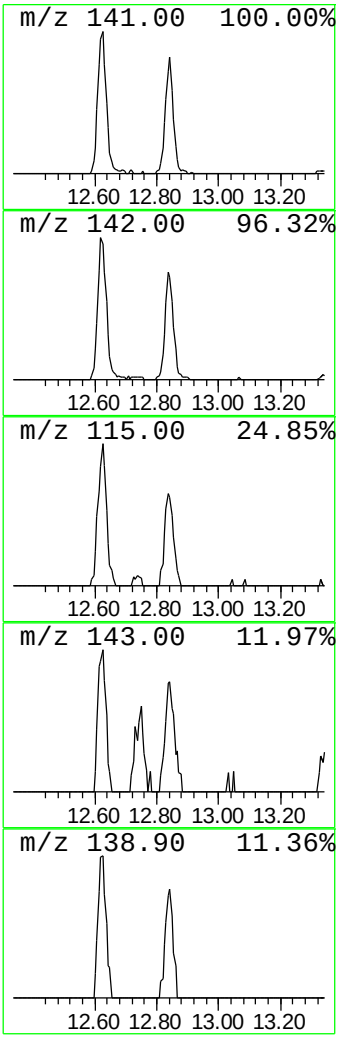
****

Peak Number 1 Naphthalene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.84	2.86 ng/ul	52325	Naphthalene-d8	10.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
3	Benzocycloheptatriene	142	C11H10	000264-09-5	90
4	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	83
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	83





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052316\
Data File : BG022044.D
Acq On : 23 May 2016 12:37
Operator : UM/SJ
Sample : H3086-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

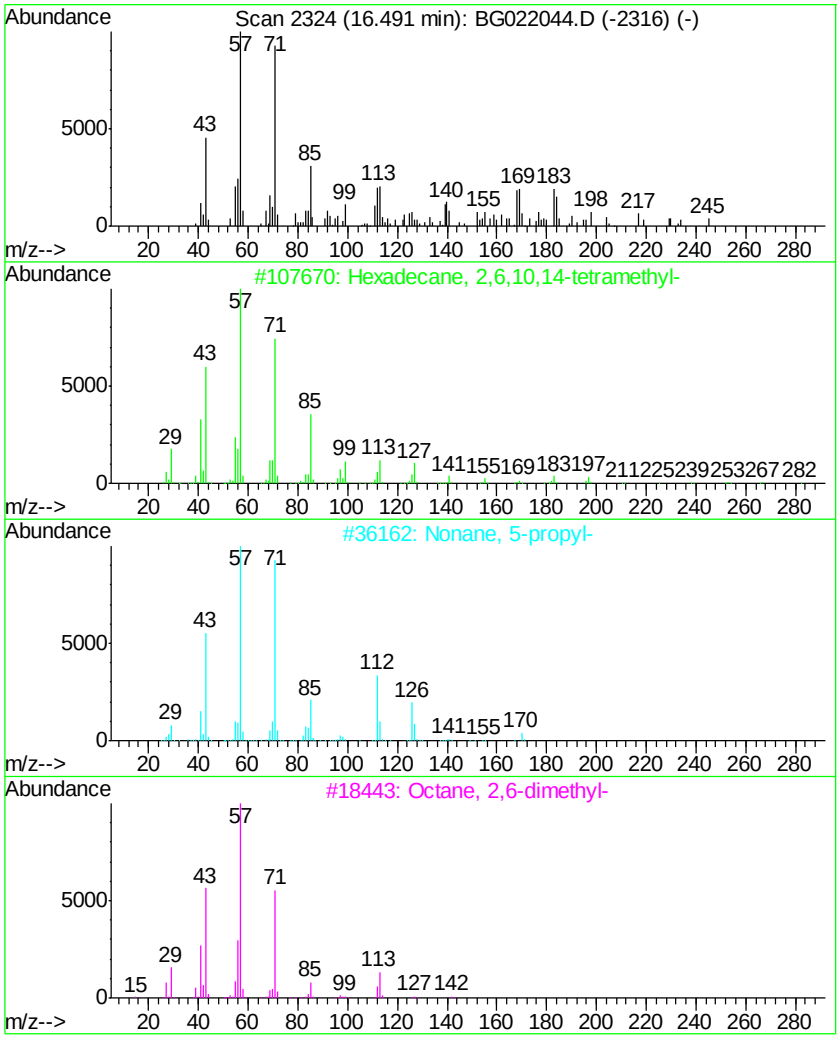
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

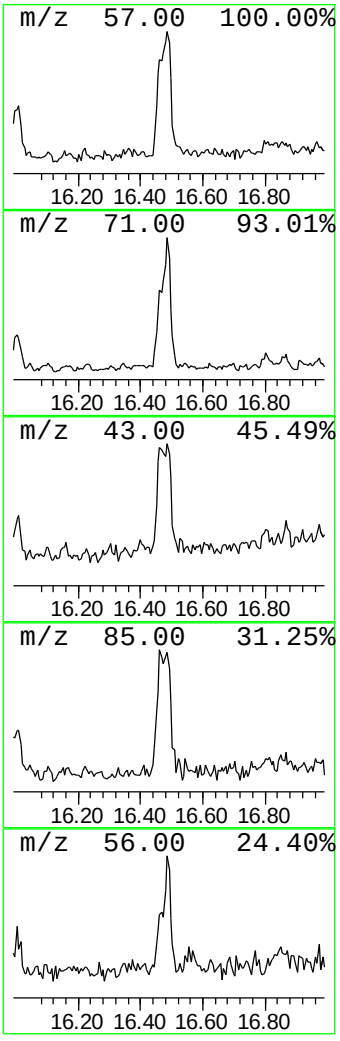
****

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.49	4.02 ng/ul	89152	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	47
2	Nonane, 5-propyl-	170	C12H26	000998-35-6	46
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	43
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	43
5	Nonane, 2-methyl-5-propyl-	184	C13H28	031081-17-1	43





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Operator : UM/SJ
Sample : H3086-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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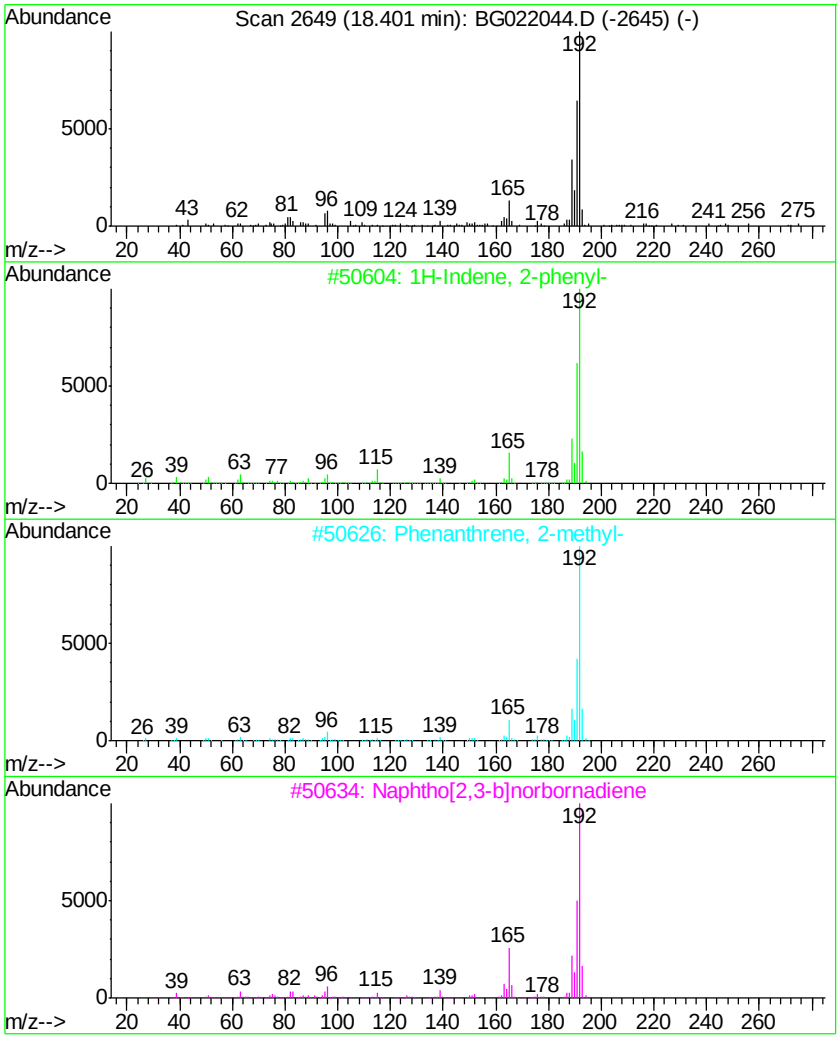
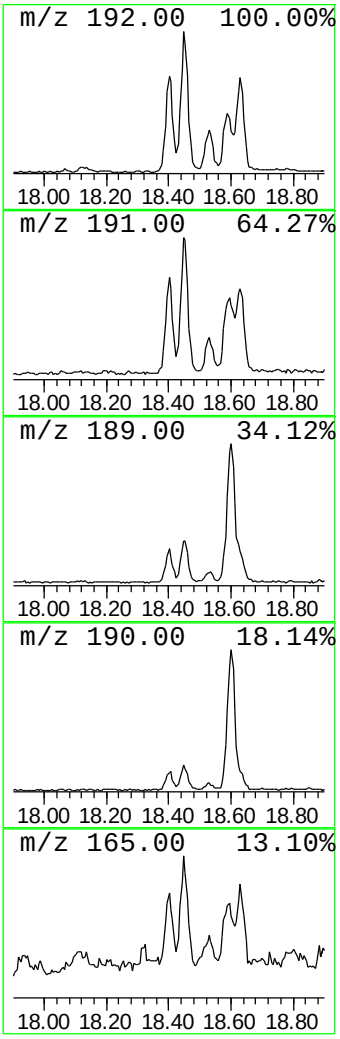
Peak Number 3 1H-Indene, 2-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	3.93 ng/ul	87106	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	81
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
3	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	72
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	72
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	68





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052316\
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Acq On : 23 May 2016 12:37
Operator : UM/SJ
Sample : H3086-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

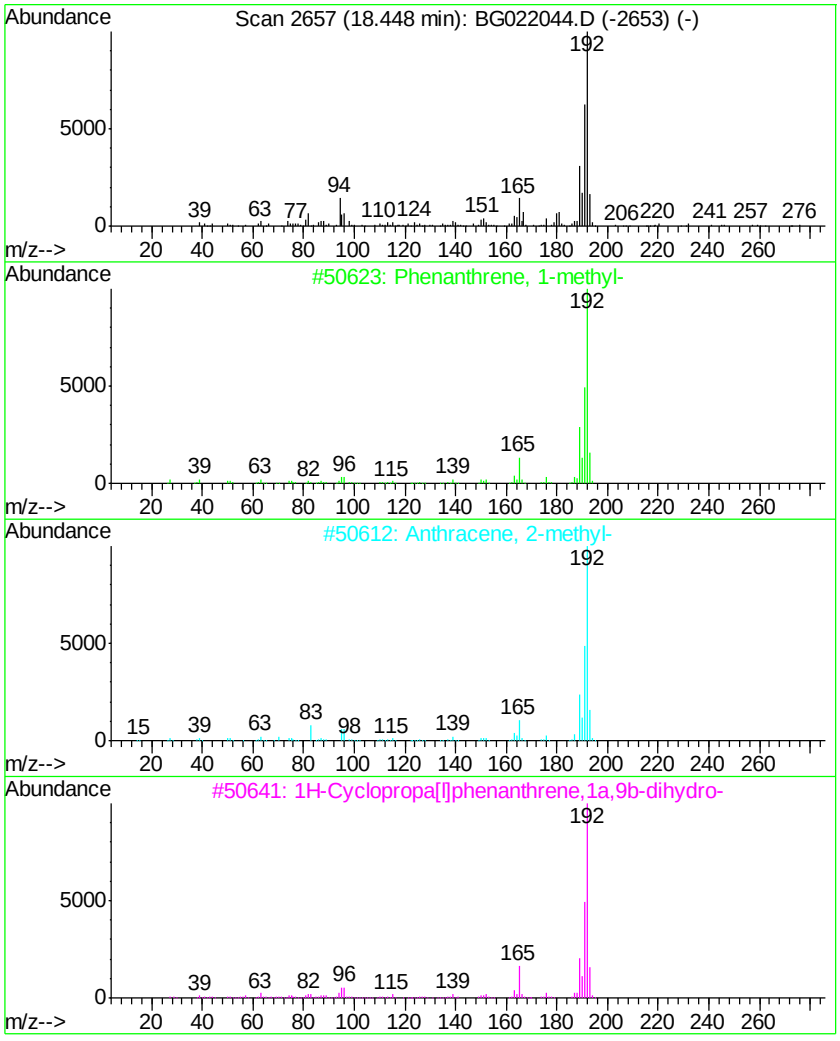
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

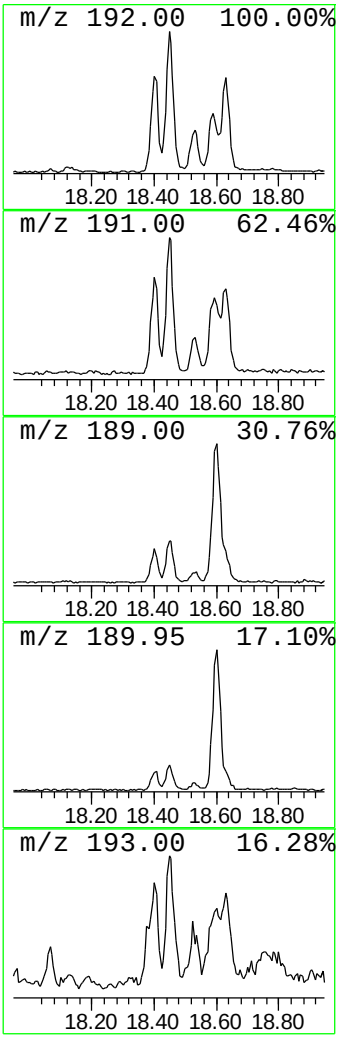
****

Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	6.97 ng/ul	154492	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052316\
Data File : BG022044.D
Acq On : 23 May 2016 12:37
Operator : UM/SJ
Sample : H3086-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

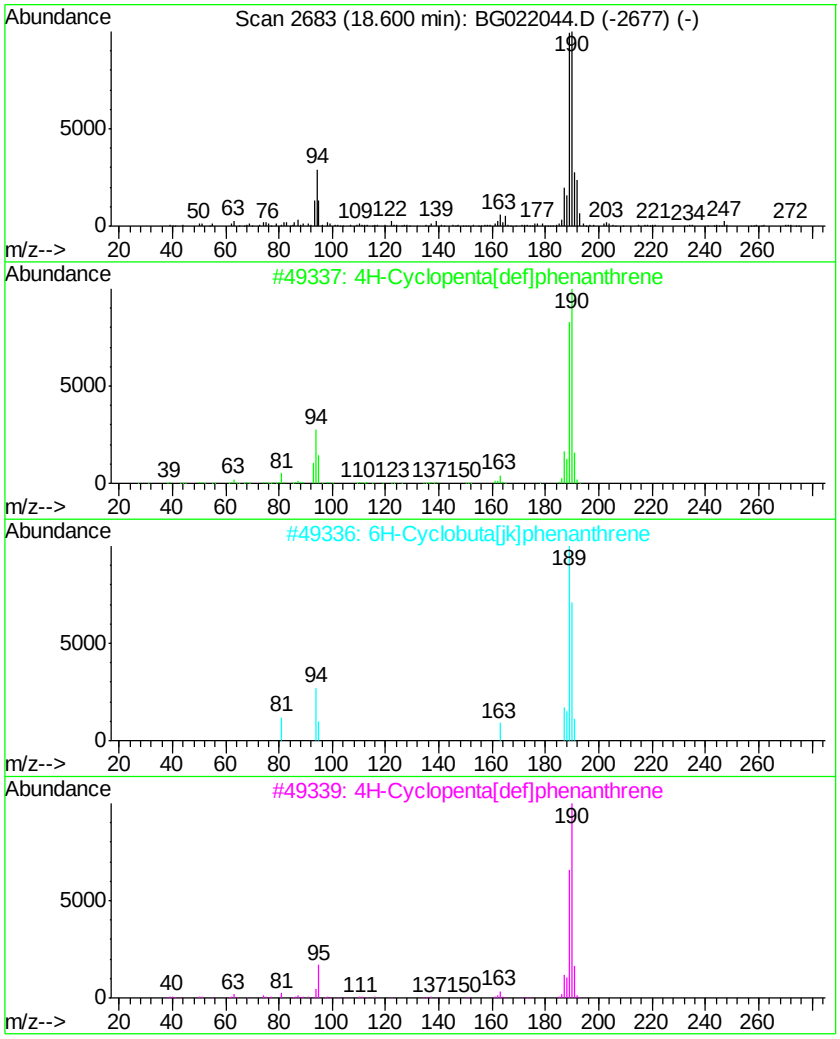
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

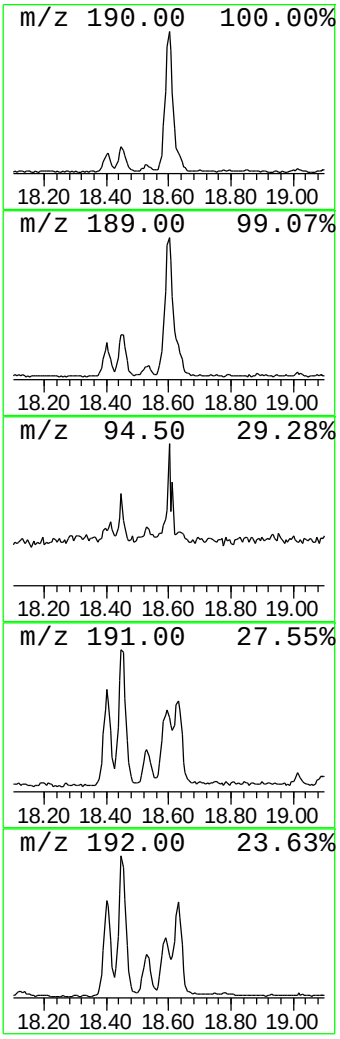
****

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.60	9.35 ng/ul	207098	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	80
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	59
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052316\
Data File : BG022044.D
Acq On : 23 May 2016 12:37
Operator : UM/SJ
Sample : H3086-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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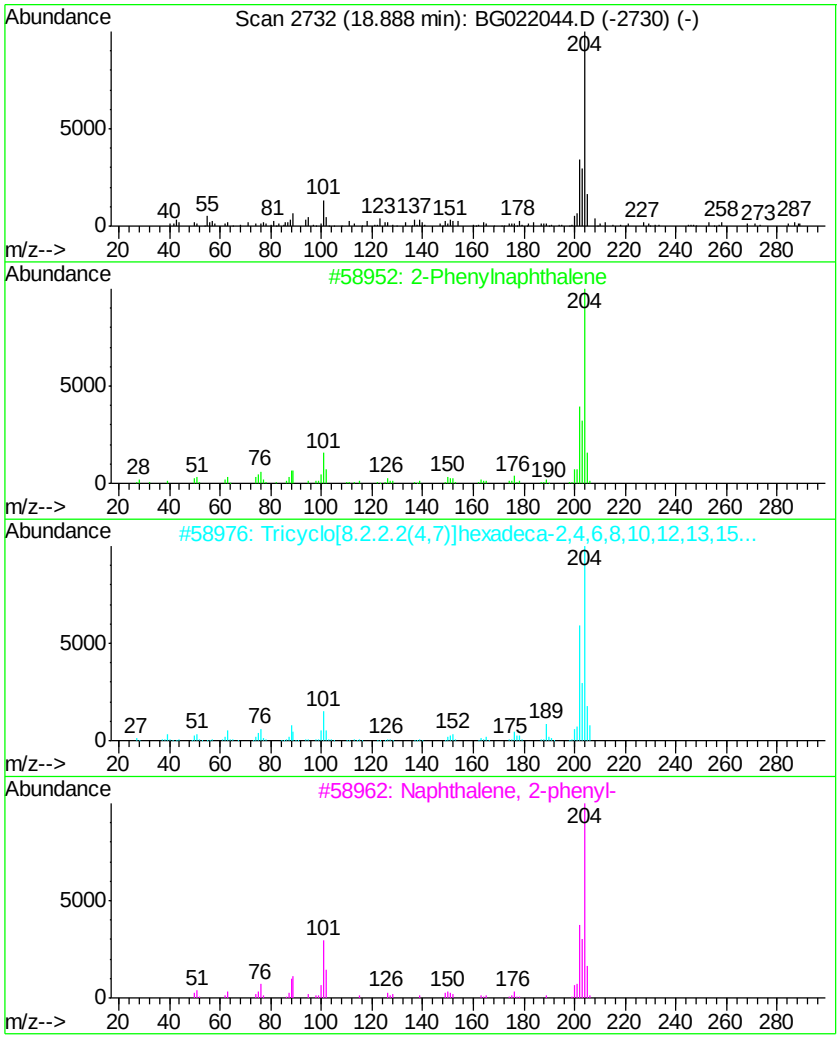
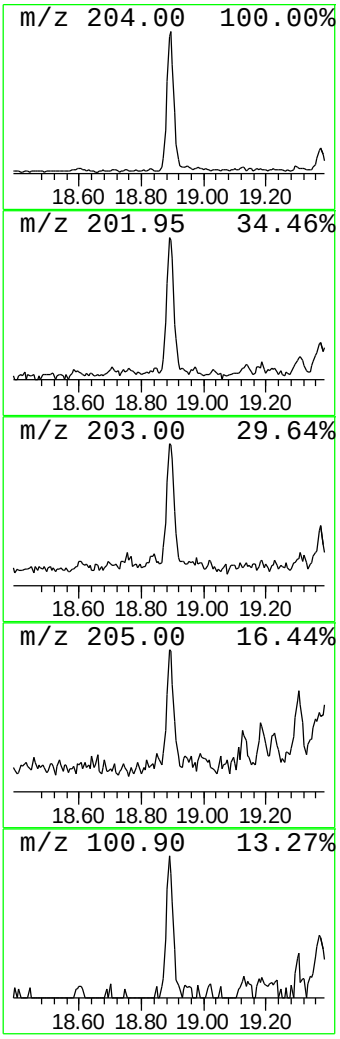
Peak Number 6 2-Phenylnaphthalene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.89	2.71 ng/ul	60033	Phenanthrene-d10	17.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	76
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	76
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	68
4	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	64
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	62





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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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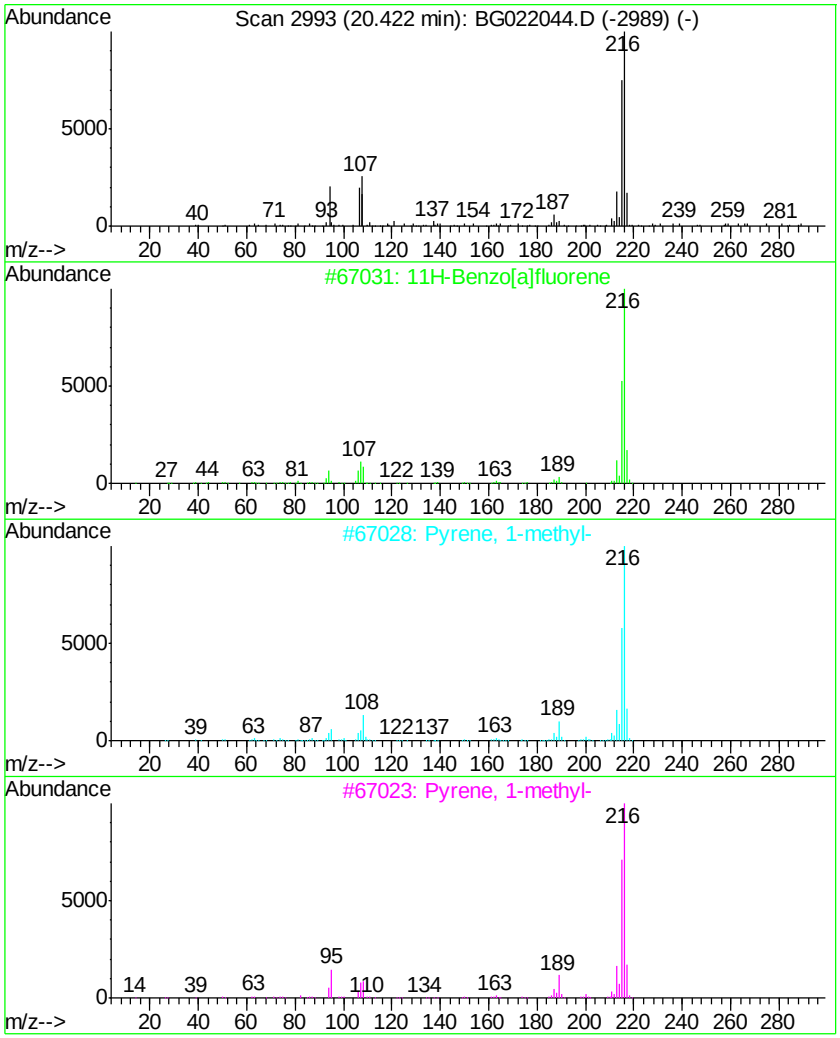
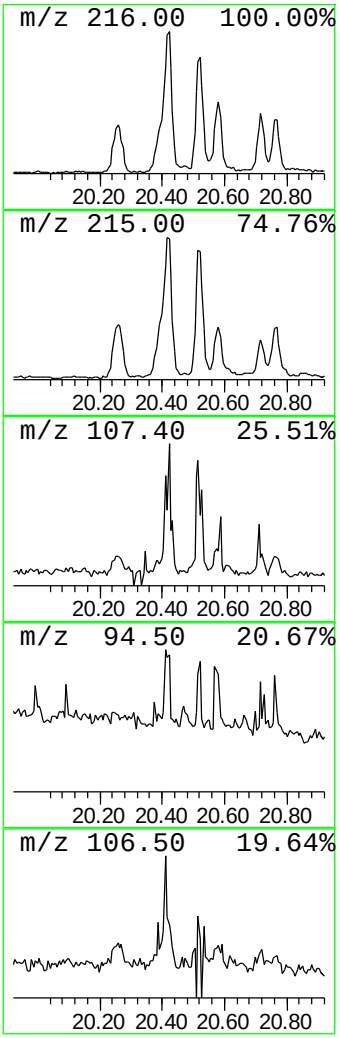
Peak Number 7 11H-Benzo[a]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.42	2.87 ng/ul	141564	Chrysene-d12	21.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	81
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	76
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	74
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	74





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Data File : BG022044.D
Acq On : 23 May 2016 12:37
Operator : UM/SJ
Sample : H3086-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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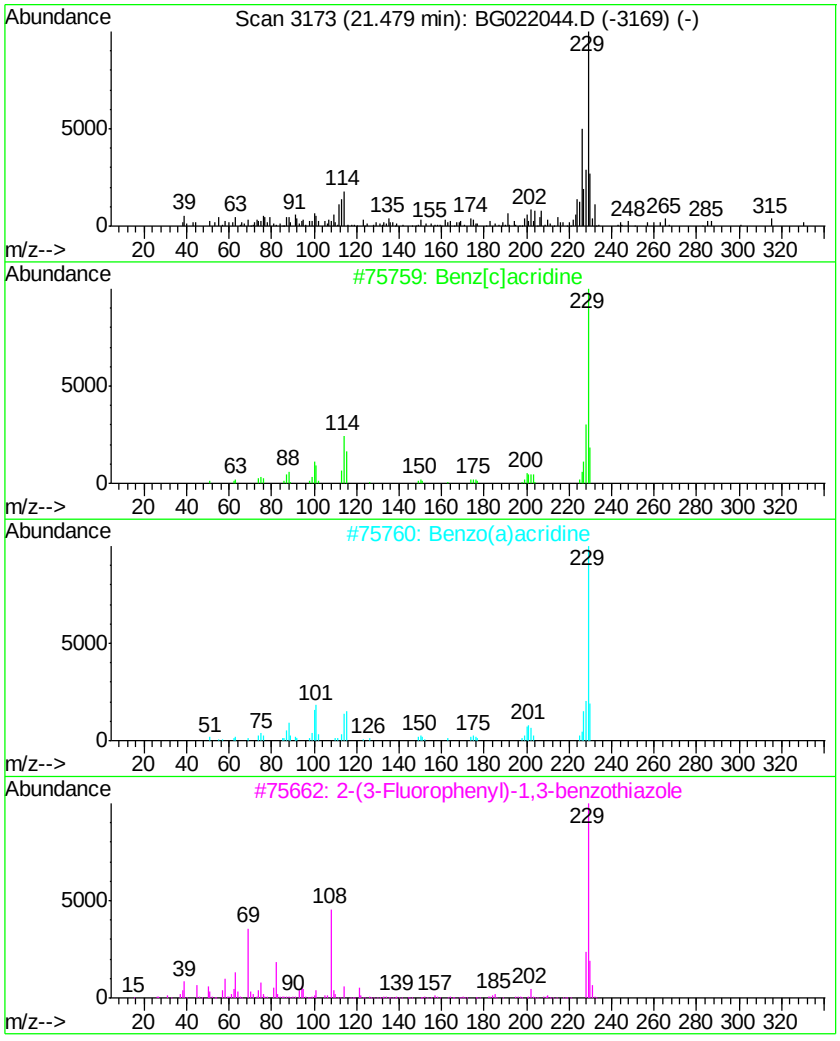
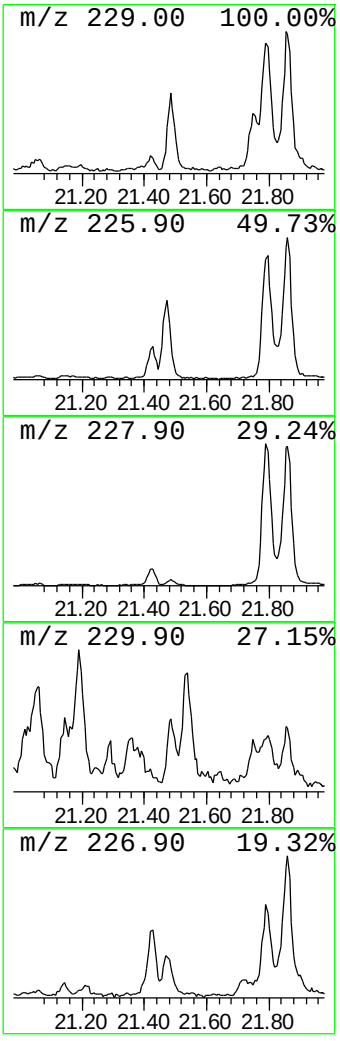
Peak Number 8 Benz[c]acridine Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.48	2.02 ng/ul	99913	Chrysene-d12	21.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[c]acridine	229	C17H11N	000225-51-4	64
2	Benzo(a)acridine	229	C17H11N	000225-11-6	47
3	2-(3-Fluorophenyl)-1,3-benzothia...	229	C13H8FNS	1000298-18-6	43
4	Benzo(a)acridine	229	C17H11N	000225-11-6	38
5	4,7-Dihydroxy-2-[trifluoromethyl...	229	C10H6F3NO2	200933-11-5	27





Tentatively Identified Compound (LSC) summary

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Operator : UM/SJ
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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : JHGF5

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 1-me...	12.84	2.9	ng/ul	52325	2	10.98	366535	20.0
(DEL) Alkane: Str...	16.49	4.0	ng/ul	89152	4	17.53	443174	20.0
1H-Indene, 2-phenyl-	18.40	3.9	ng/ul	87106	4	17.53	443174	20.0
Phenanthrene, 1-m...	18.45	7.0	ng/ul	154492	4	17.53	443174	20.0
4H-Cyclopenta[def...	18.60	9.3	ng/ul	207098	4	17.53	443174	20.0
2-Phenylnaphthalene	18.89	2.7	ng/ul	60033	4	17.53	443174	20.0
11H-Benzo[a]fluorene	20.42	2.9	ng/ul	141564	5	21.81	987354	20.0
Benz[c]acridine	21.48	2.0	ng/ul	99913	5	21.81	987354	20.0